

## CLAIMS:

1. A method for compensating jitter on data packets by clock time derived time stamping upon transmission of the data packets resulting in transmission time stamps, characterized in that the jitter is compensated based on a comparison between the transmission time stamps and generated reception time stamps of the data packets, and that

5 the reception time stamps are derived from the same clock time as whereof the transmission time stamps are derived.

2. The method according to claim 1, characterized in that the data packets are isochronous protocol packets containing one or more transport stream packets.

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3. The method according to claim 2, characterized in that an additional jitter compensation mechanism is applied on the transport stream packets present in the isochronous protocol packets.

15 4. The method according to claim 3, characterized in that at least some of the transport stream packets comprise an associated time stamp which drives a phase locked loop in the additional jitter compensation mechanism.

20 5. The method according to claim 4, characterized in that the associated time stamp is included in a PCR packet, which preferably is the first packet in an isochronous protocol packet.

25 6. The method according to claim 5, characterized in that the associated time stamps depend on the comparison between the transmission time stamps and generated reception time stamps of the data packets.

7. The method according to one of the claims 2-6, characterized in that the transport stream has a variable bit rate.

8. The method according to one of the claims 2-7, characterized in that the transport stream is a partial transport stream.

9. A transmission system comprising a transmitter and a receiver mutually coupled through a transmission medium, the transmitter comprising a transmitter wall clock and transmission time stamping means coupled to the transmitter wall clock for time stamping the data packets upon their transmission to the receiver, characterized in that the receiver comprises a receiver wall clock which is similar to the transmitter wall clock, a reception time stamping means coupled to the receiver wall clock for generating time stamps upon reception of the data packets, and jitter compensating means coupled to the reception time stamping means for compensating jitter on the data packets.

10. The transmission system according to claim 9, characterized in that the data packets are isochronous protocol packets containing one or more transport stream packets.

15 11. The transmission system according to claim 10, characterized in that the transmission system comprises transport stream jitter compensating means coupled to the jitter compensating means.

20 12. The transmission system according to claim 11, characterized in that the transport stream jitter compensating means include a phase locked loop.

13. The transmission system according to one of the claims 10-12, characterized in that the transport stream has a variable bit rate.

25 14. The transmission system according to one of the claims 10-13, characterized in that the transport stream is a partial transport stream.

30 15. A transmitter suited for application in the transmission system according to one of the claims 9-14, comprising the transmitter and a receiver mutually coupled through a transmission medium, the transmitter comprising a transmitter wall clock and transmission time stamping means coupled to the transmitter wall clock for time stamping the data packets upon their transmission to the receiver, characterized in that the receiver comprises a receiver wall clock which is similar to the transmitter wall clock, a reception time stamping means

coupled to the receiver wall clock for generating time stamps upon reception of the data packets, and jitter compensating means coupled to the reception time stamping means for compensating jitter on the data packets.

5 16. A receiver suited for application in the transmission system according to one of the claims 9-14, comprising a transmitter and the receiver mutually coupled through a transmission medium, the transmitter comprising a transmitter wall clock and transmission time stamping means coupled to the transmitter wall clock for time stamping the data packets upon their transmission to the receiver, characterized in that the receiver comprises a receiver wall clock which is similar to the transmitter wall clock, a reception time stamping means coupled to the receiver wall clock for generating time stamps upon reception of the data packets, and jitter compensating means coupled to the reception time stamping means for compensating jitter on the data packets.

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15 17. Signals used in the transmission system according to one of the claims 9-14 and suited for applying the method according to one of the claims 1-8.